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SEQUENCE LISTING10/517309 ~~A4~~

<110> MIRAS, STEPHANE  
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GRUNWALD, DIDIER

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<140> 10/517,309

<141> 2003-12-17

<150> PCT/FR03/01877

<151> 2003-06-19

<150> FR02/07729

<151> 2002-06-21

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Pro Ala Gly Leu Lys Leu Asp Gly Thr Gly Lys Lys Ala Asn Ile Leu  
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195 200 205

Pro Glu Gly Ala Ala Leu Lys Ser Pro Ser Gly Lys Lys Tyr Asp Ala  
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Val Val His Cys Ala Asn Gly Ile Pro Phe Ser Val Phe Glu Pro Asn  
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Leu Ser Glu Asn Gly Lys Val Ile Asp Ile Thr Pro Gly Pro Asn Ala  
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Met Trp Thr Tyr Ala Val Lys Lys Ile Thr Met Ser Lys Lys Gln Leu  
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Val Pro Leu Leu Leu Ile Pro Lys Ala Glu Asn Leu Glu Phe Met Val  
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Asp Trp Lys Ile Gln Lys Gly Val Leu Arg Pro Leu Leu Pro Arg Lys  
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Phe Pro Thr Ile Pro Gly Thr Asp Val Ala Gly Glu Val Val Gln Ala  
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Gly Ser Ala Val Asn Arg Phe Lys Thr Gly Asp Lys Val Val Ala Val  
85 90 95

Leu Ser His Ala Thr Gly Gly Ala Leu Ala Glu Tyr Ala Val Ala Lys  
100 105 110

Glu Asn Leu Thr Val Ala Arg Pro Pro Glu Val Ser Ala Ala Glu Gly  
115 120 125

Ala Ala Leu Pro Val Ala Ala Leu Thr Ala His Gln Ala Leu Thr Gln  
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Phe Ala Asn Ile Lys Leu Asp Gly Ser Gly Glu Arg Lys Asn Ile Leu  
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Ile Thr Ala Ala Ser Gly Gly Val Gly His Tyr Ala Val Gln Leu Ala  
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Lys Leu Gly Asn Thr His Val Thr Ala Thr Cys Gly Ala Arg Asn Leu  
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Asp Phe Val Lys Gly Leu Gly Ala Asp Glu Val Leu Asp Tyr Lys Thr  
195 200 205

Pro Glu Gly Ala Ser Leu Thr Ser Pro Ser Gly Lys Lys Tyr Asp Tyr  
210 215 220

Val Val His Gly Ala Ser Gly Ile Pro Trp Ser Thr Phe Glu Pro Asn  
225 230 235 240

Leu Ser Glu Ala Gly Lys Val Ile Asp Leu Thr Pro Gly Pro Thr Ala  
245 250 255

Met Met Thr Phe Ala Trp Lys Lys Leu Thr Phe Ser Lys Lys Gln Leu  
260 265 270

Val Pro Leu Leu Leu Ile Pro Lys Ile Pro Asn Phe Glu Tyr Val Val  
275 280 285

Asn Leu Val Lys Glu Lys Lys Leu Lys Thr Val Ile Asp Ser Lys His  
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 35 40 45

Ser Gly Leu Tyr Pro Pro Pro Ser Leu Pro Ser Gly Leu Gly Thr Glu  
 50 55 60

Ala Ala Gly Ile Val Ser Lys Val Gly Ser Gly Val Lys His Ile Lys  
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Ser Val His Asn Ile Ile Ala Asp Lys Ala Ala Ile Leu Pro Ala Ala  
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Ile Ser Phe Glu Gln Ala Ala Ala Ser Phe Leu Lys Gly Leu Thr Val  
 115 120 125

Tyr Tyr Leu Leu Arg Lys Thr Tyr Glu Ile Lys Pro Asp Glu Gln Phe  
 130 135 140

Leu Phe His Ala Ala Ala Gly Gly Val Gly Leu Ile Ala Cys Gln Trp  
 145 150 155 160

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Ala Lys Ala Leu Gly Ala Lys Leu Ile Gly Thr Val Gly Thr Ala Gln  
 165 170 175

Lys Ala Gln Ser Ala Leu Lys Ala Gly Ala Trp Gln Val Ile Asn Tyr  
 180 185 190

Arg Glu Glu Asp Leu Val Glu Arg Leu Lys Glu Ile Thr Gly Gly Lys  
 195 200 205

Lys Val Arg Val Val Tyr Asp Ser Val Gly Arg Asp Thr Trp Glu Arg  
 210 215 220

Ser Leu Asp Cys Leu Gln Arg Arg Gly Leu Met Val Ser Phe Gly Asn  
 225 230 235 240

Ser Ser Gly Ala Val Thr Gly Val Asn Leu Gly Ile Leu Asn Gln Lys  
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Tyr Ile Glu Ser Tyr Phe Arg Lys Gly Ile Tyr Pro Cys Glu Lys Pro  
 50 55 60

Tyr Val Leu Gly Arg Glu Ala Ser Gly Thr Val Val Ala Lys Gly Lys  
 65 70 75 80

Gly Val Thr Asn Phe Glu Val Gly Asp Gln Val Ala Tyr Ile Ser Asn  
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Ser Thr Phe Ala Gln Tyr Ser Lys Ile Ser Ser Gln Gly Pro Val Met  
 100 105 110

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Lys Leu Pro Lys Gly Thr Ser Asp Glu Glu Leu Lys Leu Tyr Ala Ala  
115 120 125

Gly Leu Leu Gln Val Leu Thr Ala Leu Ser Phe Thr Asn Glu Ala Tyr  
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His Val Lys Lys Gly Asp Tyr Val Leu Leu Phe Ala Ala Ala Gly Gly  
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Val Gly Leu Ile Leu Asn Gln Leu Leu Lys Met Lys Gly Ala His Thr  
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Ile Ala Val Ala Ser Thr Asp Glu Lys Leu Lys Ile Ala Lys Glu Tyr  
180 185 190

Gly Ala Glu Tyr Leu Ile Asn Ala Ser Lys Glu Asp Ile Leu Arg Gln  
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Val Leu Lys Phe Thr Asn Gly Lys Gly Val Asp Ala Ser Phe Asp Ser  
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Val Gly Lys Asp Thr Phe Glu Ile Ser Leu Ala Ala Leu Lys Arg Lys  
225 230 235 240

Gly Val Phe Val Ser Phe Gly Asn Ala Ser Gly Leu Ile Pro Pro Phe  
245 250 255

Ser Ile Thr Arg Leu Ser Pro Lys Asn Ile Thr Leu Val Arg Pro Gln  
260 265 270

Leu Tyr Gly Tyr Ile Ala Asp Pro Glu Glu Trp Lys Tyr Tyr Ser Asp  
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Glu Phe Phe Gly Leu Val Asn Ser Lys Lys Leu Asn Ile Lys Ile Tyr  
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Pro Val Glu Thr Tyr Ile Arg Ser Gly Thr Tyr Thr Arg Ile Pro Leu  
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Leu Pro Tyr Thr Pro Gly Thr Asp Val Ala Gly Val Val Glu Ser Ile  
65 70 75 80

Gly Asn Asp Val Ser Ala Phe Lys Lys Gly Asp Arg Val Phe Thr Thr  
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Ser Thr Ile Ser Gly Gly Tyr Ala Glu Tyr Ala Leu Ala Ser Asp His  
100 105 110

Thr Val Tyr Arg Leu Pro Glu Lys Leu Asp Phe Arg Gln Gly Ala Ala  
115 120 125

Ile Gly Ile Pro Tyr Phe Thr Ala Cys Arg Ala Leu Phe His Ser Ala  
130 135 140

Arg Ala Lys Ala Gly Glu Ser Val Leu Val His Gly Ala Ser Gly Gly  
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35 40 45

Pro Val Glu Thr Tyr Ile Arg Ser Gly Ala Tyr Ser Arg Lys Pro Ala  
50 55 60

Leu Pro Tyr Thr Pro Gly Ser Asp Val Ala Gly Ile Ile Glu Ser Val  
65 70 75 80



Gly Asp Lys Val Ser Ala Phe Lys Lys Gly Asp Arg Val Phe Cys Tyr  
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 Ser Thr Val Ser Gly Gly Tyr Ala Glu Phe Ala Leu Ala Ala Asp Asp  
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 Thr Ile Tyr Pro Leu Pro Glu Thr Leu Asn Phe Arg Gln Gly Ala Ala  
 115 120 125  
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 Arg Ala Arg Ala Gly Glu Ser Val Leu Val His Gly Ala Ser Gly Gly  
 145 150 155 160  
 Val Gly Leu Ala Thr Cys Gln Ile Ala Arg Ala His Gly Leu Lys Val  
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 Leu Gly Thr Ala Gly Ser Glu Glu Gly Lys Lys Leu Val Leu Gln Asn  
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 Gly Ala His Glu Val Phe Asn His Lys Glu Ala Asn Tyr Ile Asp Lys  
 195 200 205  
 Ile Lys Met Ser Val Gly Asp Lys Asp Lys Gly Val Asp Val Ile Ile  
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 Glu Met Leu Ala Asn Glu Asn Leu Ser Asn Asp Leu Lys Leu Leu Ser  
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 His Gly Gly Arg Val Val Val Val Gly Cys Arg Gly Pro Ile Glu Ile  
 245 250 255  
 Asn Pro Arg Asp Thr Met Ala Lys Glu Thr Ser Ile Ile Gly Val Ser  
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 Gln Ala Gly Ile Glu Lys Gly Trp Val Lys Pro Val Ile Gly Ser Glu  
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